We claim:

1. A compound selected from the group consisting of the formula:

$$\begin{array}{c}
R_4 \\
O \\
R_3
\end{array}$$

$$\begin{array}{c}
R_1 \\
O \\
R_2
\end{array}$$

where R₁ is an aromatic structure, an alicyclic structure, a branched aliphatic

5 structure or a linear aliphatic group having 5 to 15 carbons; and

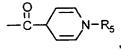
R₂ is an aliphatic chain having 10 to 18 carbons;

R₃ is a tertiary amine; and

R4 is a group that is selectively hydrolyzed in a target cell.

- 10 2. The compound of Claim 1 wherein R₃ is pyrrolidino.
 - 3. The compound of Claim 1 wherein R4 is selected from the group

consisting of an acetyl, $-CO(CH_2)_nCH_3$ wherein n is at least 1 and wherein R_5 is an alkyl group.



- 4. The compound of Claim 1 wherein R_1 is 4-hydroxyphenyl.
- 5. The compound of Claim 1 wherein R_1 is 3,4-ethylenedioxy.
- 6. A method for inhibiting the growth of cancer cells in a mammal comprising the step of administering to the mammal a therapeutically effective amount of a composition comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.

7. A method for treating a patient having sphingolipidosis by reducing glycosphingolipid synthesis comprising the step of administering to the patient a therapeutically effective amount of a omposition comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.

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8. A method for treating a patient having a microbial or viral infection comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.

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9. A method for treating a patient having a drug resistant tumor, comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.

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- 10. A method for reducing tumor angiogenesis in a patient comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.
 - 11. A vaccination method comprising the steps of:

- a). removing cancer cells sensitive to the compounds below from a patient;b). treating the cancer cells *in vitro* with an effective amount of a composition
- comprising the compound of Claim 1 and pharmaceutically acceptable salts thereof.

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12. A compound selected from the group consisting of the formula:

$$R_3 \xrightarrow{R_4} O - R_6$$

$$O = R_2$$

where R₁ is an aromatic structure, an alicyclic structure, a branched aliphatic structure or a linear aliphatic group having 5 to 15 carbons; and

5 R₂ is an aliphatic chain having 10 to 18 carbons;

R₃ is a tertiary amine;

 R_4 is a group that is selectively hydrolyzed in a target cell or a hydrogen; and R_6 is a group that is selectively hydrolyzed in a target cell.

- 10 13. The compound of Claim 12 wherein R₃ is pyrrolidino.
 - 14. The compound of Claim 12 wherein R_4 is selected from the group consisting of an acetyl, $-CO(CH_2)_nCH_3$ wherein n is at least 1 and wherein R_5 is an alkyl group.

15. The compound of Claim 12 wherein R_6 is selected from the group consisting of an acetyl, $-CO(CH_2)_nCH_3$ wherein n is at least 1 and wherein R_5 is an alkyl group.

- 20 16. The compound of Claim 12 wherein R₁ is 4-hydroxyphenyl.
 - 17. The compound of Claim 12 wherein R_1 is 3,4-ethylenedioxy.

18. A method for inhibiting the growth of cancer cells in a mammal comprising the step of administering to the mammal a therapeutically effective amount of a composition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.

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- 19. A method for treating a patient having sphingolipidosis by reducing glycosphingolipid synthesis comprising the step of administering to the patient a therapeutically effective amount of a omposition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.
- 20. A method for treating a patient having a microbial or viral infection comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.
- 21. A method for treating a patient having a drug resistant tumor, comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.
- 22. A method for reducing tumor angiogenesis in a patient comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.
 - 23. A vaccination method comprising the steps of:
 - a). removing cancer cells sensitive to the compounds below from a patient;
- b). treating the cancer cells in vitro with an effective amount of a composition comprising the compound of Claim 12 and pharmaceutically acceptable salts thereof.

24. A compound selected from the group consisting of the formulas:

where R_2 is an aliphatic chain having 10 to 18 carbons; and R_3 is a tertiary amine.

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- 25. The compound of Claim 24 wherein R_3 is pyrrolidino.
- 26. A method for inhibiting the growth of cancer cells in a mammal comprising the step of administering to the mammal a therapeutically effective amount of a composition comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.
- 27. A method for treating a patient having sphingolipidosis by reducing glycosphingolipid synthesis comprising the step of administering to the patient a therapeutically effective amount of a omposition comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.
- 28. A method for treating a patient having a microbial or viral infection comprising the step of administering to the patient a therapeutically effective amount of
 20 a composition comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.
 - 29. A method for treating a patient having a drug resistant tumor, comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.
 - 30. A method for reducing tumor angiogenesis in a patient comprising the step of administering to the patient a therapeutically effective amount of a composition comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.

- 31. A vaccination method comprising the steps of:
- a). removing cancer cells sensitive to the compounds below from a patient;
- b). treating the cancer cells in vitro with an effective amount of a composition
- 5 comprising the compound of Claim 24 and pharmaceutically acceptable salts thereof.